CLAIMS

1. A data processing apparatus comprising:

means for extracting a necessary packet from each of a plurality of transport streams and reconstructing the extracted packets to one transport stream;

means for executing limited reception from the reconstructed one transport stream and separating the necessary packets; and

means for decoding each packet separated from the reconstructed one transport stream.

2. A data processing apparatus according to claim 1, wherein packet information of SI (Service Information) is extracted from each of said plurality of transport streams, a new SI packet is reconstructed from the information of the packet of the SI obtained from each of said plurality of transport streams, and said reconstructed new SI packet is added to said reconstructed one transport stream.

3. A data processing apparatus according to claim 1, wherein packet information of SI (Service Information) is extracted from each of said plurality of transport streams, the information of the packet of the SI obtained from each of said plurality of transport streams is sent to processing means, and a process for limited reception is executed.

4. A data processing apparatus comprising:

means for extracting information of a packet of SI (Service Information) from each of a plurality of

transport streams and executing a process for limited reception by using the information of the packet of the SI obtained from each of said plurality of transport streams;

means for executing the common limited reception with respect to each of said plurality of transport streams and separating the necessary packets; and

means for decoding each packet separated from each of said transport streams.

5. A data processing apparatus according to claim 4, wherein said means for separating the necessary packets is time-divisionally used with respect to said plurality of transport streams.

6. A digital broadcasting receiver comprising:

means for extracting a necessary packet from each of a plurality of transport streams and reconstructing the extracted packets to one transport stream;

means for executing limited reception from the reconstructed one transport stream and separating the necessary packets; and

means for decoding each packet separated from the reconstructed one transport stream.

7. A data processing method comprising the steps of:

extracting a necessary packet from each of a plurality of transport streams and reconstructing the extracted packets to one transport stream;

executing limited reception from said reconstructed one transport stream and separating the

necessary packets; and

decoding each packet separated from said reconstructed one transport stream.

8. A data processing method according to claim 7, wherein packet information of SI (Service Information) is extracted from each of said plurality of transport streams, a new SI packet is reconstructed from the information of the packet of the SI obtained from each of said plurality of transport streams, and said reconstructed new SI packet is added to said reconstructed one transport stream.

9. A data processing method according to claim 7, wherein packet information of SI (Service Information) is extracted from each of said plurality of transport streams, the information of the packet of the SI obtained from each of said plurality of transport streams is sent to processing means, and a process for limited reception is executed.

10. A data processing method comprising the steps of:

extracting packet information of SI (Service Information) from each of a plurality of transport streams and executing a process for common limited reception by using the information of the packet of the SI obtained from each of said plurality of transport streams;

executing the limited reception with respect to each of said plurality of transport streams and separating the necessary packets; and

decoding each packet separated from each of said transport streams, respectively.

11. A data processing method according to claim 10, wherein said means for separating the necessary packets is time-divisionally used with respect to said plurality of transport streams.